

Product datasheet for **RC228254**

GPN3 (NM_001164372) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPN3 (NM_001164372) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GPN3
Synonyms: ATPBD1C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228254 representing NM_001164372
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCCCCAAAACAAGAGGTGCCTTCCACTTCAGTATTCCAGATCCTCAGCACATTTGCAAATCGCGAG
GGTCACCATACAGGTCAAACGCTGCACGCAAACCACGGACCGAAGCACGTGGCGCAAGGATGCGGAGCT
TTATCTGTTGCCGTTATTACTCAGAGCACCTACTGTGCCACCATGGTCCAGCACTGTGAAGCCCTCAAC
CGGTCTGTCCAAGTTGTAACCTGGATCCAGCAGCAGAACAACACTTCAACTACTCCGTGATGGCTGACATCC
GGAACTGATCGAGGTGGATGATGTAATGGAGGATGATTCTCTGCGATTCCGTCCCAACGGAGGATTGGT
ATTTTGCATGGAGTACTTTGCCAATAATTTTGACTGGCTGGAGAACTGTCTTGGCCATGTAGAGGACGAC
TATATCCTTTTTGATTGTCCAGGTCAGATTGAGTTGTACACTCACCTGCCTGTGATGAAACAGCTGGTCC
AGCAGCTCGAGCAGTGGGAGTCCGAGTCTGTGGAGTTTTTCTTGTGATTCTCAGTTTCATGGTGGAGTC
ATCAAGTTTATTTCTGGCATCTTGGCAGCCCTGAGTGCCATGATCTCTAGAAATTCGCAAGTCAAC
ATCATGACAAAAATGGATCTGCTGAGTAAAAAGCAAAAAGGAAATGAGAAATTTTTAGATCCAGACA
TGTATTCTTTATTAGAAGATTCTACAAGTACTTAAGAAGCAAAAATCAAGAACTGACTAAAGCTAT
ATGTGGACTGATTGATGACTACAGCATGGTTCGATTTTTACCTTACGATCAGTCAGATGAAGAAAGCATG
AACATTGATTGCAGCATATTGATTTTGCCATTCAATATGGAGAAGACCTAGAATTTAAAGAACCAAAGG
AACGTGAAGATGAGTCTTCTCTATGTTTGACGAATATTTTCAAGAATGCCAGGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228254 representing NM_001164372
 Red=Cloning site Green=Tags(s)

MLPKTRGAFHFSIPDPQHICKSRGSPYRSNVCTQTDDRSTWRKDAELYLLSVITQSTYCATMVQHCEALN
 RSVQVVNLDPAAEHFNFYSVMADIRELIEVDDVMEDDSLRFGPNGGLVFCMEYFANNFDWLENCLGHVEDD
 YILFDCPGQIELYTHLPVMKQLVQLEQWFRVCGVFLVDSQFMVESFKFISGILAAALSAMISLEIPQVN
 IMTKMDLLSKKAKKEIEKFLDPDMYSLLEDSTDLRSKKFKKLTKAICGLIDDYSMVRFLPYDQSDDEESM
 NIVLQHIQYGEDLEFKPKEREDSSMFDEYFQECQDE

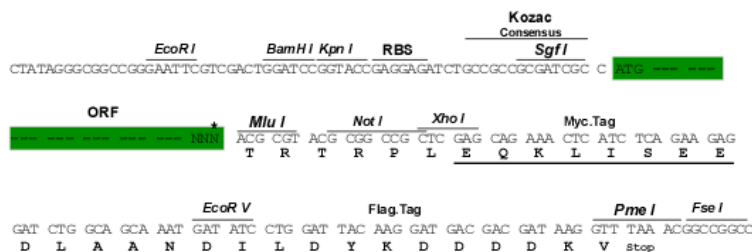
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001164372

ORF Size: 969 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001164372.1](#), [NP_001157844.1](#)

RefSeq ORF: 972 bp

Locus ID: 51184

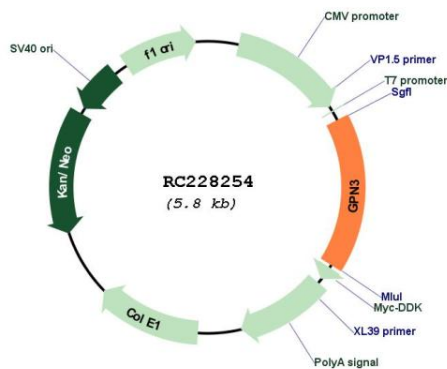
UniProt ID: [Q9UHW5](#)

Cytogenetics: 12q24.11

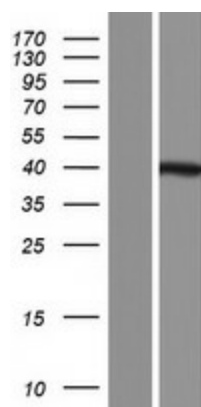
MW: 37.3 kDa

Gene Summary: Small GTPase required for proper localization of RNA polymerase II (RNAPII). May act at an RNAP assembly step prior to nuclear import.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228254



Western blot validation of overexpression lysate (Cat# [LY431282]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228254 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).